

September 7, 1960

Dear Jim:

For some time we have been dissatisfied with the performance of the Gorman-Rupp pump incorporated in the Dayton 70mm Spray Processing Machine. Four of these pumps in each machine recirculate the processing solutions from collecting sumps to the sprays. The efficiency of these pumps to a large extent determines the efficiency of the machine.

Our dissatisfaction stems from poor performance in the field. Frequent breakdowns, and relatively poor design for repair has resulted in excessive machine down time and cost.

Because of this experience, a lengthy exploration of design improvement was made. The enclosed Change Proposal, No. 5127-2-60, for the fabrication of field modification kits, is submitted as a result of this exploration.

The Eastern Industries pump proposed for this modification has been proved by long experience in other equipment. The entire re-design is based on extensive operating experience not available when the original design was made.

Approval of this Change Proposal is requested to gain the increased efficiency and lowered cost inherent in the new design.

DTA

D. T. A.

DTA/MDG

Orig. w/4 Encls.

cc: Col. R. - w/1 Encl.

R.G.W. - w/1 Encl.

PD-660
A4X

Company Name Eastman Kodak Company		Engineering Study Change Proposal X	Proposal No. 5127-2-60
Date 7 September 1960		Affects WSFO	Project X
Name of Major Component Dayton 70MM Spray Processing Machine	Part or Lowest Subassembly Pump Gorman-Rupp, 8AS46-S16	Part No. & Model or Type 11-196-29	
Title of Proposal: Dayton 70MM Spray Processing Machine - Pump Modification			

Nature of Proposal:

Modification of five (5) Dayton 70MM Spray Processing Machines by replacement of Gorman-Rupp Pumps Model 8AS46-S16, with Eastern Industries Pumps, Model D-11, Re-design of solution inlet to pump to eliminate submersion of the pump.

Reason for Proposal:

Gorman-Rupp pumps have required excessive field maintenance, and shop overhaul resulting in excessive machine down time and cost.

Experience with Eastern Industries D-11 pumps, has resulted in less field maintenance and no shop overhaul, except in extreme malfunctions.

D-11 pumps are better designed for field repair of most operating problems.

ES	ESTIMATED COST AND TIME INVOLVED: ADDITIONAL FUNDING REQUIRED:
GP	ESTIMATED COST FOR KITS OR EXEMPTS: \$1300 per kit ADDITIONAL FUNDING REQUIRED:

ITEMS AFFECTED BY PROPOSAL:

Safety	Mission Effec- tiveness	Perform- ance	Operating Procedure	Inter- change- ability	Weight or Weight & Balance	Tools & Support Equipment	Service Life	Flight Manual	Mainte- nance Procedure	Mainte- nance Manual
		X				X	X		X	X

Est. Man/Hrs. Req'd. to Accomplish Change In Field

20 hrs.

Source of Parts for Kit

Availability 12 Weeks After Approval

Eastman Kodak Company

Disposition of Spares Affected

(11-196-29
(11-196-91111-196-461
11-196-104311-196-482
11-196-102711-196-79
11-196-460

Initiated By

Approved: WSFO

25X1A

001/08/01 : CIA-RDP81B00878R000700020209-7

PROJECT

9/15/60

TO	NAME AND ADDRESS	INITIALS	DATE
1.	<i>Material</i>	<i>CDW</i>	<i>9/15/60</i>
2.	<i>Contracts</i>		
3.			
4.			
5.			
6.			
7.			
RETURN TO SENDER			
ACTION		CONCURRENCE	INFORMATION
COMMENT		FILE	SIGNATURE
REMARKS			
<p><i>Attached is ECP from Eastman for your approval.</i></p> <p><i>[Redacted] has concurred in this change.</i></p> <p><i>Please return original ECP to Contracts. I will then request the Depot to issue order under Contract PO-660.</i></p>			
NAME AND ADDRESS		PHONE NO.	
[Redacted]		<i>4116</i>	
		DATE	
		<i>9/13/60</i>	

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